Reconsideration and allowance of this application are respectfully

requested in view of the above amendment and the discussion below.

Applicants invention, as defined by amended independent claim 1,

concerns a process which functions by gravity or, in other words, an open process

for chroming an inner surface of a component by mixing chroming granules with

an activator and heating the mixture to form a coating gas including CrCl. The

coating gas is dissipated and provided on the inner surface of the component to

form a chromium containing diffusion layer due to the operation of gravity.

As can be seen in Figure 1, and as described in the specification, because

the coating gas 8 has a greater destiny than the surrounding inert gas and

because of the effect of gravity, there is automatically a continuous flow through

the outlet 7 at the bottom of the vessel 5 where it is guided to cavity 2 of the

turbine blade 1 and then acts upon the surface 2 to form the chromium-

containing diffusion layer.

The British Patent GB 2,328,219 is a closed cycle process driven by

thermal convection of different temperatures of the sources and the substrate

inside the reaction container. The metal halide is produced from sources position

at the bottom, the top and the side of the reaction container. Therefore, contrary

to the assertion of the Examiner, the process of British Patent '219 does not

occur automatically due to gravity.

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In contrast, as discussed above, the present invention, as defined by

amended independent claim 1, describes an open process driven by gravity

whereas the British Patent '219 uses thermal convection to move metal halide

produced at the sources to the substrate were the deposition reaction of the

metal halides provides a coating of the substrate. Produced halides move back to

the source through the thermal convection to the sources were new metal halides

are formed.

Applicants respectively submit that independent amended claim 1, which

corresponds to a combination of original claims 1 and 5, provides a process

which, as a whole, is not shown or disclosed or made obvious by the British

Patent '219. The secondary reference to Benden et al. U.S. Patent No. 4,148,275

even accepting the statement of the rejection for the showing of Benden et al.

concerning the desirably of coating internal passages of a turbine blade, adds

nothing toward meeting the claim limitations of amended independent claim 1

with respect to the use of gravity defining an open cycle process.

Therefore, Applicants respectfully request that this application containing

claims 1-4 and 6-9 be allowed and be passed to issue.

If there are any questions regarding this amendment or the application in

general, a telephone call to the undersigned would be appreciated since this

should expedite the prosecution of the application for all concerned.

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Serial No. 09/915,765

Amendment Dated: March 8, 2004

Reply to Office Action: December 8, 2003

If necessary to effect a timely response, this paper should be considered as a petition for an Extension of Time sufficient to effect a timely response, and please charge any deficiency in fees or credit any overpayments to Deposit Account No. 05-1323 (Docket #038741.50233US).

Respectfully submitted,

March 8, 2004

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